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## Thermal Sonde

The invention concerns a thermal sonde for targeted application of thermal energy to limited areas of tissue.

It is known to use thermal energy to treat diseases. If this thermal energy is to be applied only to specific areas of the body or areas of tissue, specially shaped irradiators are used that mostly emit thermal irradiation without direct contact with the surface of the body. It is not possible to apply to a narrowly limited area of tissue using such devices.

It is the task of the invention to create a device for targeted application of thermal energy to limited areas of tissue, whereby the surrounding tissue surfaces remain unaffected.

This task is solved by the invention by a sonde for targeted application of thermal energy to limited areas of body tissue that includes a device to create electromagnetic irradiation, and whose surface facing the body is cooled. The cooled surface may also be in direct contact with the body surface. Areas of the body that are to remain unaffected are held at their normal temperature, or are even cooled, by the cooling, while closely adjacent areas of tissue that are to be subjected to thermal treatment may be precisely addressed. The magnitude and intensity of the thermal field and of the cooling field are adaptable to treatment requirements.

Patent Claim 1:

Sonde for targeted application of thermal energy to limited tissue areas of bodies of creatures,

characterized by

a device to create electro-magnetic irradiation (6, 8) whose surface facing the body is cooled.

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